



815 Connecticut Avenue, N.W., Suite 610  
Washington, D.C. 20006

17 October 2008

**WT Docket No. 06-136**

Office of the Secretary  
Federal Communications Commission  
The Portals  
445 Twelfth Street, S.W.  
12th Street Lobby, TW-A325  
Washington, DC 20554

RE: Post-Transition Notification - Fixed Wireless Holdings LLC  
Transition of the 2500-2690 MHz Band for BRS and EBS  
Transition Area: BTA Number 358: Portland, OR

Dear Ms. Dortch:

Fixed Wireless Holdings LLC, a wholly-owned subsidiary of Clearwire Corporation (together "Clearwire"), and the designated Proponent for the market, hereby notifies the Commission, pursuant to Section 27.1235 of its Rules, that it has completed the Transition for BTA Number 358: Portland, OR.

As required by Section 21.1235, attached hereto are the following:

- **Exhibit 1** which contains a list of the licensees that have transitioned to the new band plan;  
and
- **Exhibit 2** listing each station in the MBS including
  - the station coordinates,
  - antenna make and model,
  - the horizontal and vertical pattern of the antenna,
  - the EIRP of the main lobe,
  - antenna orientation,
  - height of the antenna center of radiation,
  - transmitter output power, and
  - the line and combiner losses.

As required by Section Section 27.1235(c), a copy of the subject Post-Transition Notification is being served on all parties to the transition of this market as listed in **Exhibit 1**.

If you have any questions regarding this matter please contact Brandon Bullis, Director of Spectrum Development, at (202) 351-5021 or the undersigned at (202) 429-0107.

Sincerely,

  
Terri B. Natoli

cc: Joel Taubenblatt, Chief, Broadband Division, WTB  
John Schauble, Deputy Chief, Broadband Division, WTB  
Consuela Kearney, Industry Analyst, Broadband Division, WTB

**Exhibit 1**  
**List of Facilities That Have Been Transitioned**

The authorizations listed below have been transitioned by Clearwire to the frequencies assigned to them under §27.5(i)(2). In the case of authorizations for BRS channels 1 and/or 2 (identified by "M1" and "M2"), the Proponent has no responsibility for transitioning facilities operating on these channels. The post-transition frequency assignments for BRS channels 1 and 2 are being reserved for future accommodation of services licensed for these channels.

**BTA #358: Portland, OR**

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B358, American Telecasting Of Portland, Inc.	Channels: M1M2AE1E2E3E4F1F2F3F4 H1H2H3
B395, American Telecasting of Salem/Eugene, Inc.	Channels: M1M2AE1E2E3E4F1F2F3F4 H1H2H3
WHR515, Network for Instructional TV, Inc.	Channels: G1G2G3G4
WHR522, Portland Regional Educational Telecommunications Corporation, Inc.	Channels: C1C2C3C4
WHR543, Oregon Public Broadcasting	Channels: A1A2A3A4
WHR746, Portland Community College	Channels: B1B2
WHR771, Board of Education Chemeketa Community College	Channels: A1A2A3A4
WHT647, American Telecasting Of Portland, Inc.	Channels: E1E2E3E4
WHT648, American Telecasting Of Portland, Inc.	Channels: F1F2F3F4
WLX237, Portland Community College	Channels: B3B4
WLX681, Hispanic Information and Telecommunications Network, Inc.	Channels: D1D2D3D4
WMI302, American Telecasting Of Salem/Eugene, Inc.	Channels: F1F2F3F4
WMX947, American Telecasting Of Portland, Inc.	Channels: H1
WMX948, American Telecasting Of Portland, Inc.	Channels: H2
WNC470, Portland State University	Channels: D1D2D3D4
WNC471, Oregon State System of Higher Education	Channels: B1B2B3B4
WNC717, Western Oregon University	Channels: G1G2G3G4
WNC718, Oregon State University	Channels: C1C2C3C4

**Exhibit 1**  
**List of Facilities That Have Been Transitioned (continued)**

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WND572, Portland Regional Educational  
Telecommunications Corporation, Inc.

Channels: C2C3C4

WNTF447, American Telecasting Of Portland, Inc.

Channels: H3

**Exhibit 2**  
List of Required Technical Parameters for Stations In The MBS  
Page 1 of 12

**Clearwire**  
**BTA #358: Portland, OR**

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**B358, American Telecasting Of Portland, Inc.**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel E4: 2608.0 - 2614.0 MHz

MBS Channel F4: 2602.0 - 2608.0 MHz

*This licensee is not currently operating in the Mid-Band Segment*

**B395, American Telecasting of Salem/Eugene, Inc.**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel E4: 2608.0 - 2614.0 MHz

MBS Channel F4: 2602.0 - 2608.0 MHz

*This licensee is not currently operating in the Mid-Band Segment*

**WHR515, Network for Instructional TV, Inc.**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel G4: 2596.0 - 2602.0 MHz

Transmitting Site# 1: Portland, OR

Coordinates: 45-29-20.0, 122-41-44.3

Elevation: 1017.0 feet ( 310.0 meters)

Antenna # 1: Make/Model: AND HMD16VC, Gain: 17.0 dBi

Polarity: V, Beamwidth: 180.0 deg., Orientation: 230.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 6.0 dB, EIRP: 28.0 dBw

Antenna Center of Radiation Height AGL: 456.0 feet (139.0 meters)

Antenna # 2: Make/Model: AND HMD16HC, Gain: 17.0 dBi

Polarity: H Beamwidth: 180.0 deg., Orientation: 50.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 6.0 dB, EIRP: 28.0 dBw

Antenna Center of Radiation Height AGL: 456.0 feet (139.0 meters)

## **Exhibit 2**

### **List of Required Technical Parameters for Stations In The MBS**

Page 2 of 12

## **Clearwire**

**BTA #358: Portland, OR**

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### **WHR522, Portland Regional Educational Telecommunications Corporation, Inc.**

#### *Post-Transition MBS Parameters:*

##### **MBS Facility Parameters:**

MBS Channel C4: 2584.0 - 2590.0 MHz

##### **Transmitting Site# 1: Council Crest**

Coordinates: 45-29-19.0, 122-41-44.0

Elevation: 1017.0 feet ( 310.0 meters)

Antenna # 1: Make/Model: AND HMD16VC, Gain: 17.0 dBi

Polarity: V, Beamwidth: 184.0 deg., Orientation: 230.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 6.0 dB, EIRP: 28.0 dBw

Antenna Center of Radiation Height AGL: 495.0 feet (150.9 meters)

Antenna # 2: Make/Model: AND HMD16HC, Gain: 17.0 dBi

Polarity: H, Beamwidth: 190.0 deg., Orientation: 50.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 6.0 dB, EIRP: 28.0 dBw

Antenna Center of Radiation Height AGL: 495.0 feet (150.9 meters)

### **WHR543, Oregon Public Broadcasting**

#### *Post-Transition MBS Parameters:*

##### **MBS Facility Parameters:**

MBS Channel A4: 2572.0 - 2578.0 MHz

##### **Transmitting Site# 1: Council Crest**

Coordinates: 45-29-20.0, 122-41-44.3

Elevation: 1017.0 feet ( 310.0 meters)

Antenna # 1: Make/Model: AND HMD16VC, Gain: 17.0 dBi

Polarity: V, Beamwidth: 180.0 deg., Orientation: 230.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 6.0 dB, EIRP: 28.0 dBw

Antenna Center of Radiation Height AGL: 456.0 feet (139.0 meters)

Antenna # 2: Make/Model: AND HMD16HC, Gain: 17.0 dBi

Polarity: H, Beamwidth: 180.0 deg., Orientation: 50.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 6.0 dB, EIRP: 28.0 dBw

Antenna Center of Radiation Height AGL: 456.0 feet (139.0 meters)

### **WHR746, Portland Community College**

#### *Post-Transition MBS Parameters:*

This license does not include MBS channels

**Exhibit 2**  
List of Required Technical Parameters for Stations In The MBS  
Page 3 of 12

**Clearwire**  
**BTA #358: Portland, OR**

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**WHR771, Board of Education Chemeketa Community College**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel A4: 2572.0 - 2578.0 MHz

Transmitting Site# 1: Prospect Hill

Coordinates: 44-51-17.0, 123-07-19.0

Elevation: 1131.8 feet ( 345.0 meters)

Antenna # 1: Make/Model: AND HMD16HO, Gain: 14.0 dBi

Polarity: H, Beamwidth: 360.0 deg., Orientation: 0.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 2.0 dB, EIRP: 29.0 dBw

Antenna Center of Radiation Height AGL: 282.2 feet (86.0 meters)

**WHT647, American Telecasting Of Portland, Inc.**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel E4: 2608.0 - 2614.0 MHz

*This licensee is not currently operating in the Mid-Band Segment*

**WHT648, American Telecasting Of Portland, Inc.**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel F4: 2602.0 - 2608.0 MHz

*This licensee is not currently operating in the Mid-Band Segment*

**Exhibit 2**  
List of Required Technical Parameters for Stations In The MBS  
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**Clearwire**  
**BTA #358: Portland, OR**

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**WLX237, Portland Community College**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel B4: 2578.0 - 2584.0 MHz

Transmitting Site# 1: Council Crest

Coordinates: 45-29-20.0, 122-41-44.3

Elevation: 1017.0 feet ( 310.0 meters)

Antenna # 1: Make/Model: AND HMD16VC, Gain: 17.0 dBi

Polarity: V, Beamwidth: 180.0 deg., Orientation: 230.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 6.0 dB, EIRP: 28.0 dBw

Antenna Center of Radiation Height AGL: 456.0 feet (139.0 meters)

Antenna # 2: Make/Model: AND HMD16HC, Gain: 17.0 dBi

Polarity: H, Beamwidth: 180.0 deg., Orientation: 50.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 6.0 dB, EIRP: 28.0 dBw

Antenna Center of Radiation Height AGL: 456.0 feet (139.0 meters)

**WLX681, Hispanic Information and Telecommunications Network, Inc.**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel D4: 2590.0 - 2596.0 MHz

*This licensee is not currently operating in the Mid-Band Segment*

**WMI302, American Telecasting Of Salem/Eugene, Inc.**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel F4: 2602.0 - 2608.0 MHz

*This licensee is not currently operating in the Mid-Band Segment*

**Exhibit 2**  
List of Required Technical Parameters for Stations In The MBS  
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**Clearwire**  
**BTA #358: Portland, OR**

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**WMX947, American Telecasting Of Portland, Inc.**

*Post-Transition MBS Parameters:*

This license does not include MBS channels

**WMX948, American Telecasting Of Portland, Inc.**

*Post-Transition MBS Parameters:*

This license does not include MBS channels

**WNC470, Portland State University**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel D4: 2590.0 - 2596.0 MHz

Transmitting Site# 1: Prospect Hill

Coordinates: 44-51-17.0, 123-07-19.0

Elevation: 1131.8 feet ( 345.0 meters)

Antenna # 1: Make/Model: AND HMD16HO, Gain: 14.0 dBi

Polarity: H, Beamwidth: 360.0 deg., Orientation: 0.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 2.0 dB, EIRP: 29.0 dBw

Antenna Center of Radiation Height AGL: 282.2 feet (86.0 meters)

## Exhibit 2

### List of Required Technical Parameters for Stations In The MBS

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## Clearwire

### BTA #358: Portland, OR

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#### **WNC471, Oregon State System of Higher Education**

##### *Post-Transition MBS Parameters:*

##### MBS Facility Parameters:

MBS Channel B4: 2578.0 - 2584.0 MHz

Transmitting Site# 1: Prospect Hill

Coordinates: 44-51-17.0, 123-07-19.0

Elevation: 1131.8 feet ( 345.0 meters)

Antenna # 1: Make/Model: AND HMD16HO, Gain: 14.0 dBi

Polarity: H, Beamwidth: 360.0 deg., Orientation: 0.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 2.0 dB, EIRP: 29.0 dBw

Antenna Center of Radiation Height AGL: 282.2 feet (86.0 meters)

#### **WNC717, Western Oregon University**

##### *Post-Transition MBS Parameters:*

##### MBS Facility Parameters:

MBS Channel G4: 2596.0 - 2602.0 MHz

Transmitting Site# 1: Prospect Hill

Coordinates: 44-51-17.0, 123-07-19.0

Elevation: 1131.8 feet ( 345.0 meters)

Antenna # 1: Make/Model: AND HMD16HO, Gain: 14.0 dBi

Polarity: H, Beamwidth: 360.0 deg., Orientation: 0.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 2.0 dB, EIRP: 29.0 dBw

Antenna Center of Radiation Height AGL: 282.2 feet (86.0 meters)

#### **WNC718, Oregon State University**

##### *Post-Transition MBS Parameters:*

##### MBS Facility Parameters:

MBS Channel C4: 2584.0 - 2590.0 MHz

Transmitting Site# 1: Eola Hill

Coordinates: 44-59-05.0, 123-08-30.0

Elevation: 909.0 feet ( 277.0 meters)

Antenna # 1: Make/Model: AND HMD12HO, Gain: 13.0 dBi

Polarity: H, Beamwidth: 360.0 deg., Orientation: 0.0 deg.,

Transmitter Power Output: 50.0 watts (average), Total Loss: 10.1 dB, EIRP: 19.9 dBw

Antenna Center of Radiation Height AGL: 190.3 feet (58.0 meters)

**Exhibit 2**

List of Required Technical Parameters for Stations In The MBS

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**Clearwire**

**BTA #358: Portland, OR**

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**WND572, Portland Regional Educational Telecommunications Corporation, Inc.**

*Post-Transition MBS Parameters:*

MBS Facility Parameters:

MBS Channel C4: 2584.0 - 2590.0 MHz

*This licensee is not currently operating in the Mid-Band Segment*

**WNTF447, American Telecasting Of Portland, Inc.**

*Post-Transition MBS Parameters:*

This license does not include MBS channels

**\* NOTE: Antenna Patterns follow on pages 8 - 12.**

List of Required Technical Parameters for Stations In The MBS  
Antenna Pattern Information

Exhibit 2

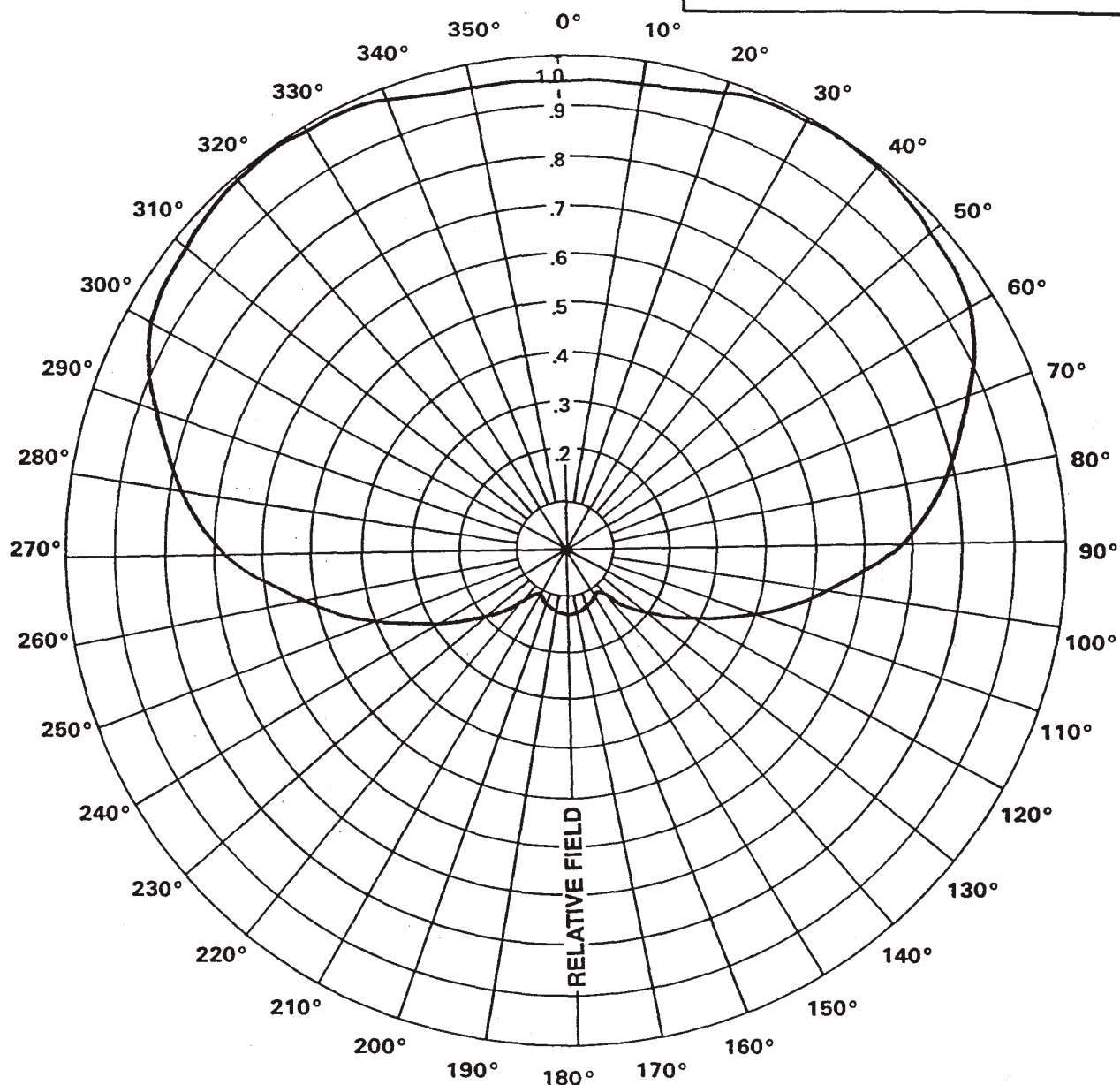
Clearw<sup>o</sup>re  
Portland, OR (BTA# 358)

**ANDREW**  
**AZIMUTH PATTERN**

Number of Bays	Antenna Type	Power Gain	(dbi)
4	HMD4VC	8.6	11.5
8	HMD8VC	17.1	14.5
12	HMD12VC	24.2	16.0
16	HMD16VC	30.4	17.0
24	HMD24VC	48.2	19.0

Type: HMD-VC  
 Numeric 2.00 dB 3.01  
 Directivity: 2.00 3.01  
 Peak(s) At: As Required  
 Polarization: Vertical  
 Channel: 2500 - 2700 MHz  
 Location: \_\_\_\_\_

NOTE: Pattern shape and directivity may vary with  
channel and mounting configuration.



List of Required Technical Parameters for Stations In The MBS  
Antenna Pattern Information

Exhibit 2

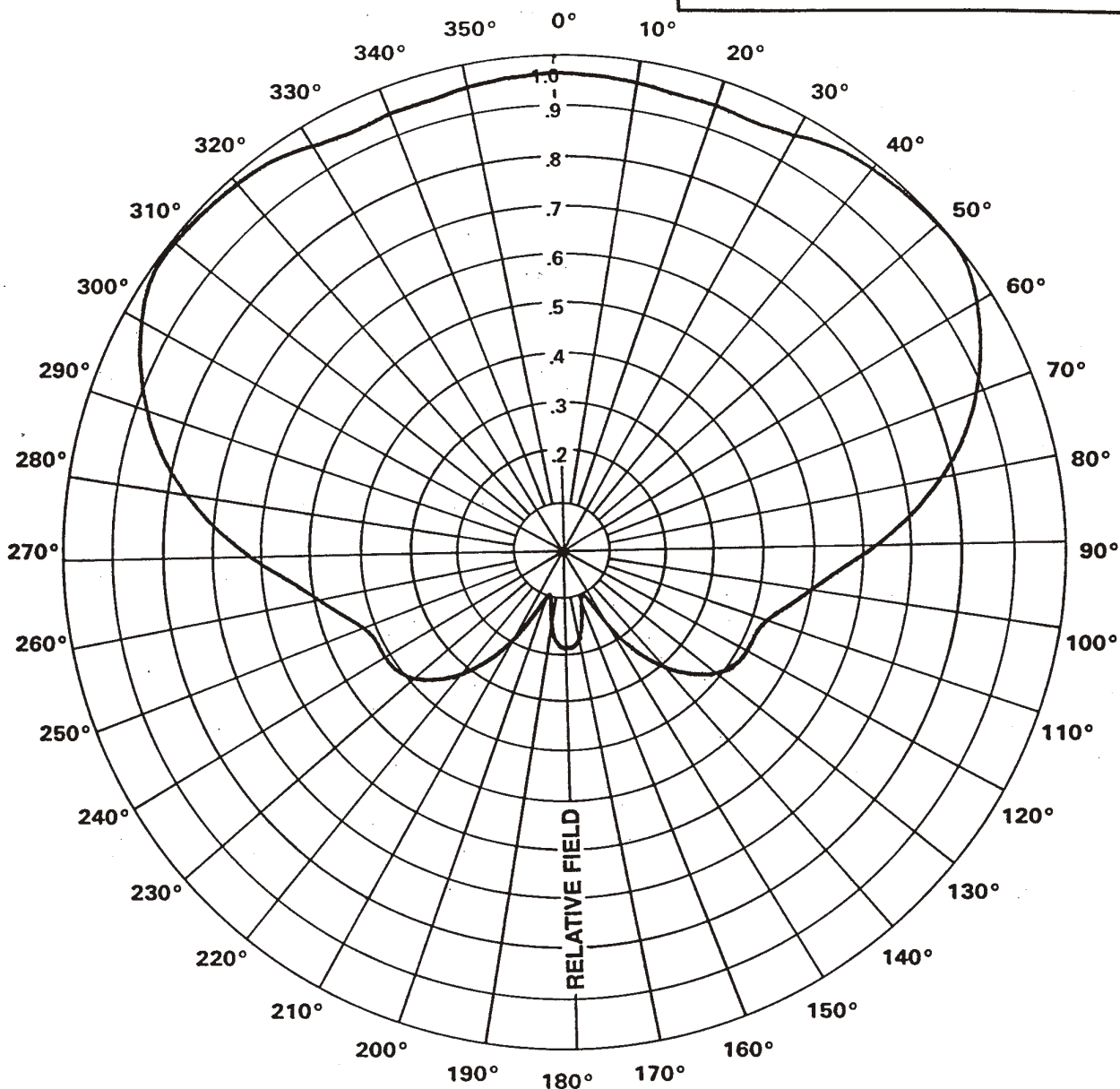
Clearw<sup>o</sup>re  
Portland, OR (BTA# 358)

Number of Bays	Antenna Type	Power Gain	(dbi)
4	HMD4HC	8.6	11.5
8	HMD8HC	17.1	14.5
12	HMD12HC	24.2	16.0
16	HMD16HC	30.4	17.0
24	HMD24HC	48.2	19.0

**ANDREW**  
**AZIMUTH PATTERN**

Type: HMD-HC  
 Directivity: Numeric dB  
 Peak(s) At: 2.00 3.01  
 Polarization: As Required  
 Channel: Horizontal  
 Location: 2500 - 2700 MHz  
 Location: \_\_\_\_\_

NOTE: Pattern shape and directivity may vary with  
channel and mounting configuration.



List of Required Technical Parameters for Stations In The MBS  
Antenna Pattern Information

Exhibit 2

Clearw<sup>o</sup>re  
Portland, OR (BTA# 358)

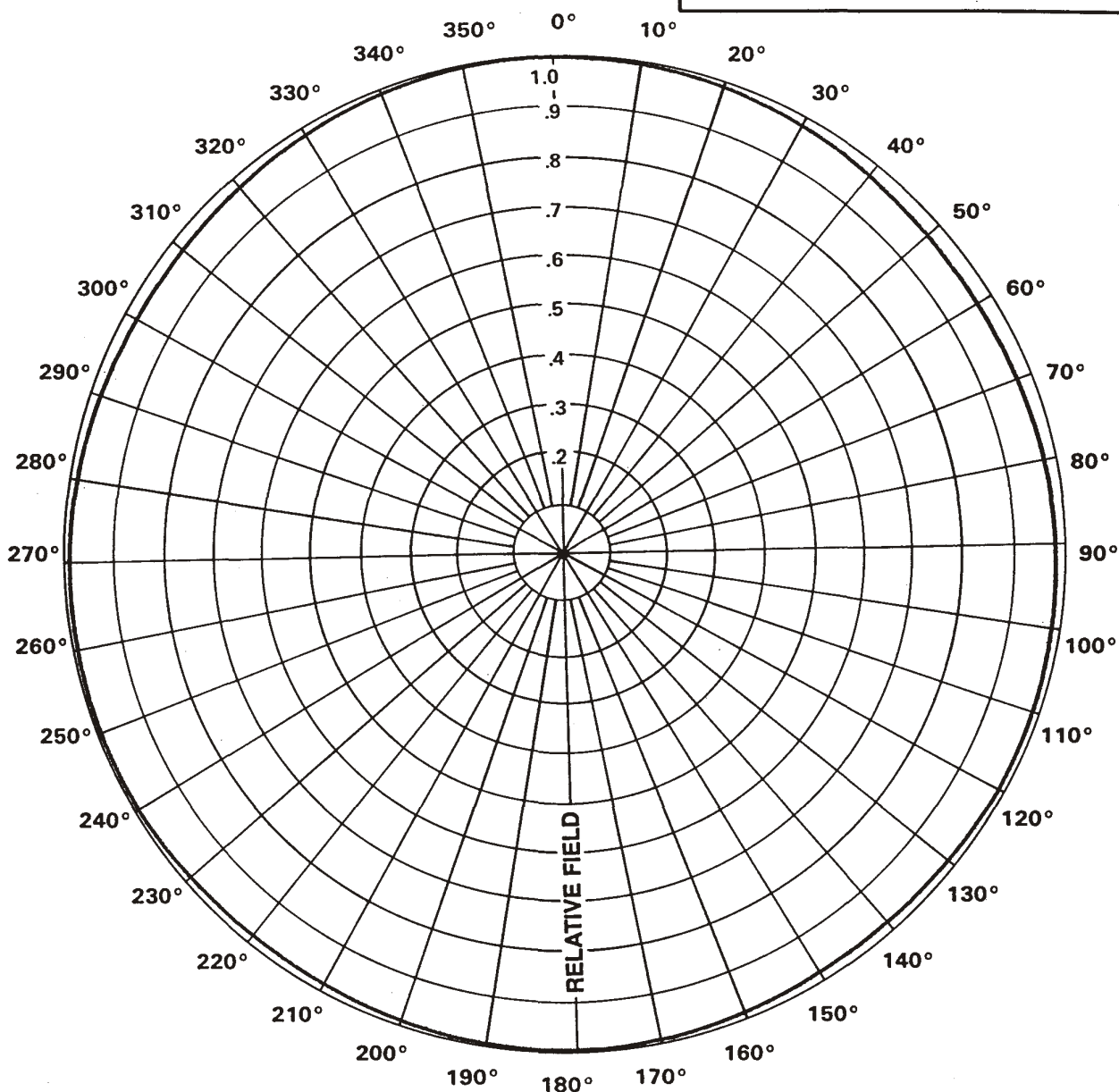
**ANDREW**  
**AZIMUTH PATTERN**

Number of Bays	Antenna Type	Power Gain	(dbi)
4	HMD4HO	4.3	8.5
8	HMD8HO	8.6	11.5
12	HMD12HO	12.1	13.0
16	HMD16HO	15.2	14.0
24	HMD24HO	24.2	16.0

Type: HMD-HO

	Numeric	dB
Directivity:	<u>1.00</u>	<u>0.00</u>
Peak(s) At:	<u>N/A (Omni)</u>	
Polarization:	<u>Horizontal</u>	
Channel:	<u>2500 - 2700 MHz</u>	
Location:	<u></u>	

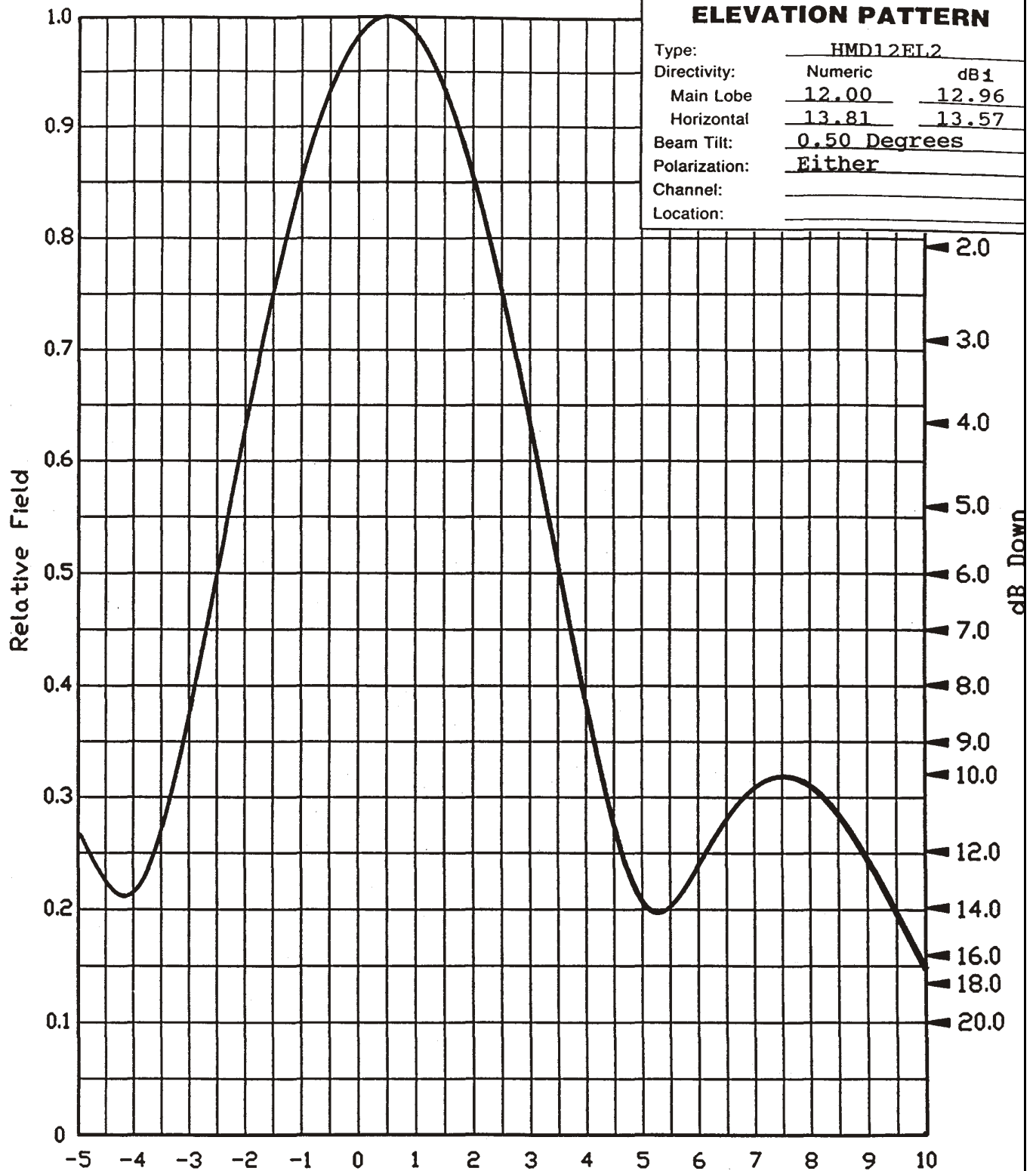
NOTE: Pattern shape and directivity may vary with  
channel and mounting configuration.



List of Required Technical Parameters for Stations In The MBS  
Antenna Pattern Information

Exhibit 2

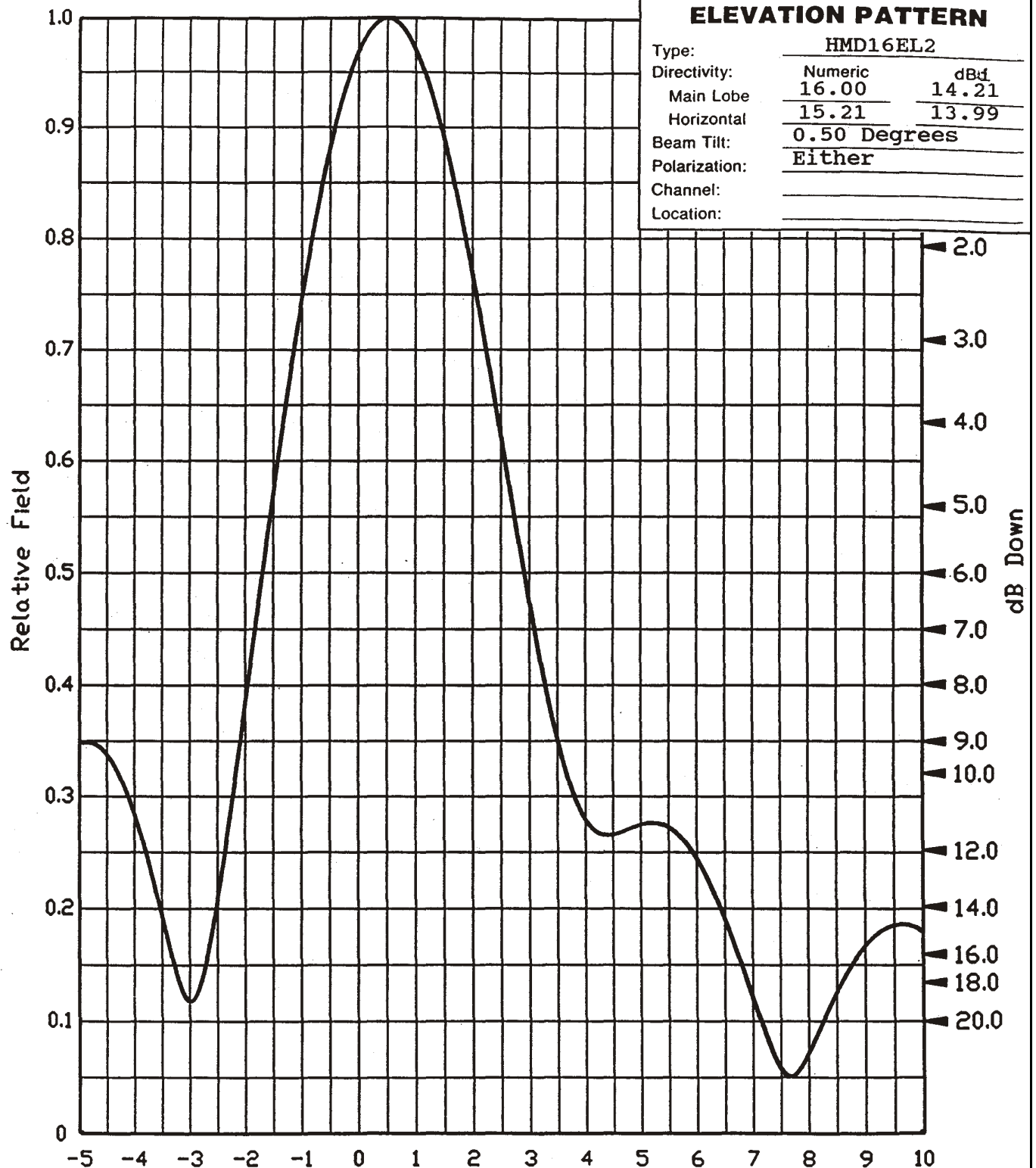
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Portland, OR (BTA# 358)



List of Required Technical Parameters for Stations In The MBS  
Antenna Pattern Information

Exhibit 2

Clearw<sup>o</sup>re  
Portland, OR (BTA# 358)



## **Certification**

Pursuant to Section 27.1235 of the Commission's Rules, Fixed Wireless Holdings LLC certifies that it has completed the transition of the Portland, OR Basic Trading Area, BTA #358.

A handwritten signature in blue ink that reads "Terri B Natoli". The signature is written in a cursive style with a blue ink overlay on a light gray background.

Terri B. Natoli